

FIG. 1 (PRIOR ART)

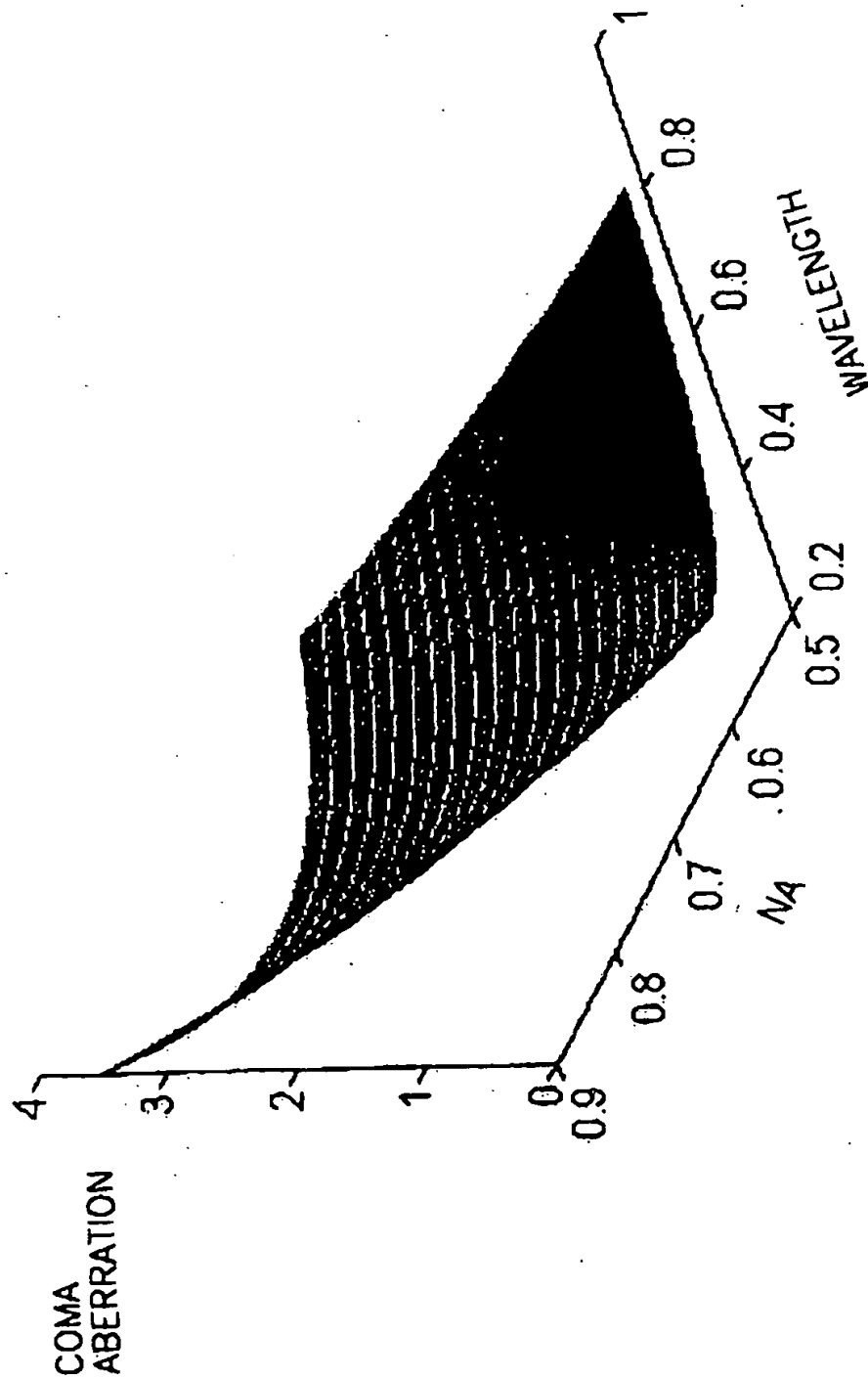
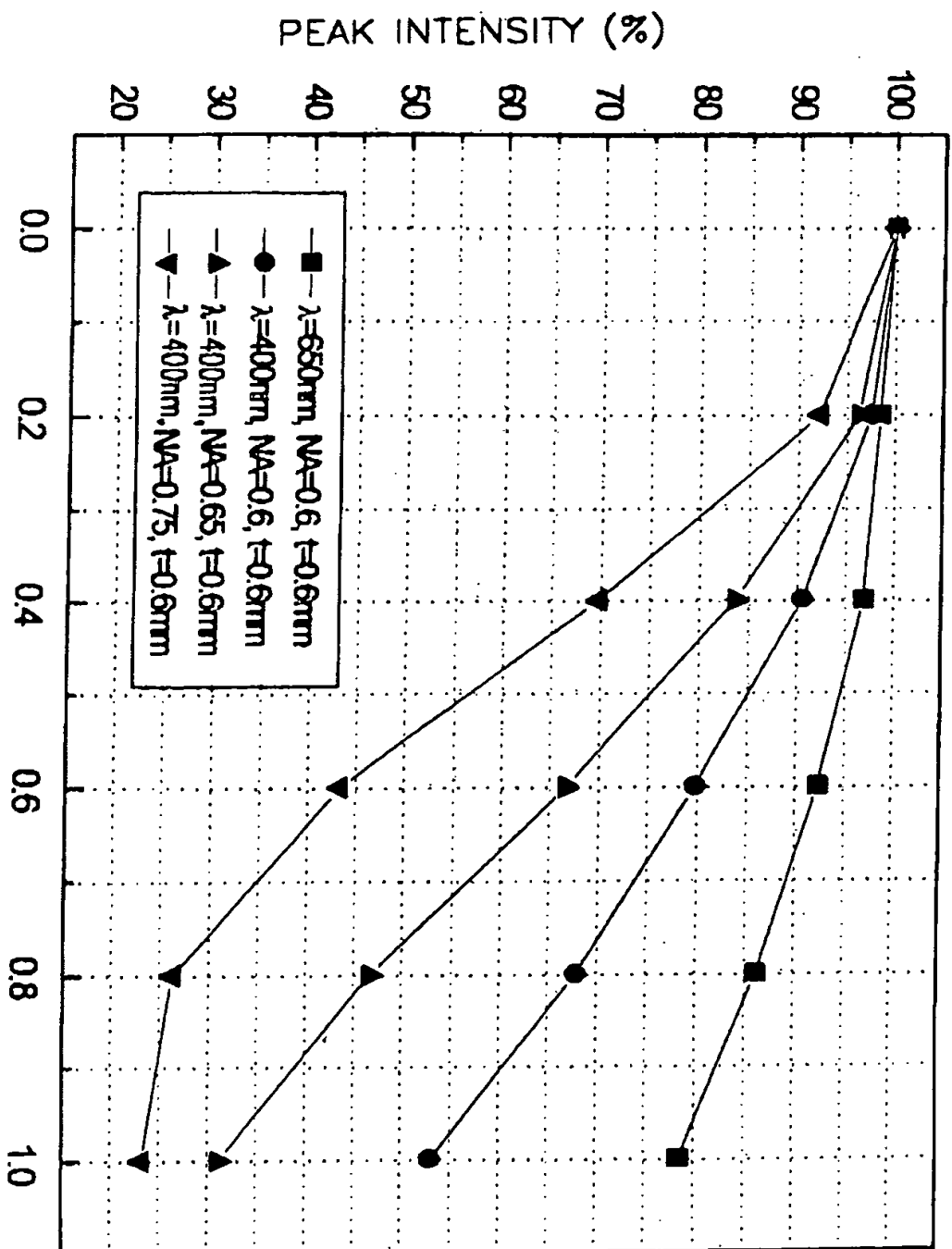
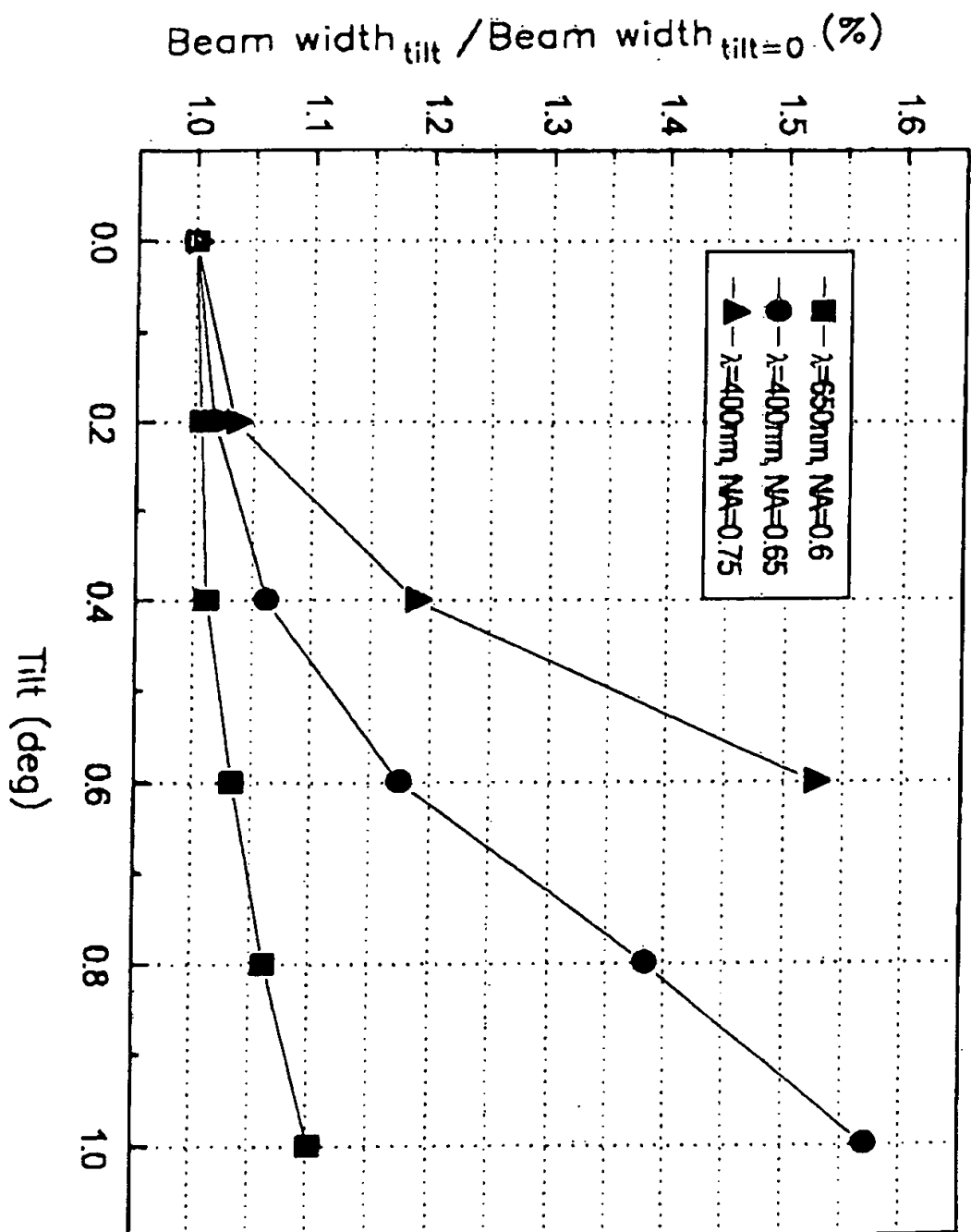


FIG. 2 (PRIOR ART)



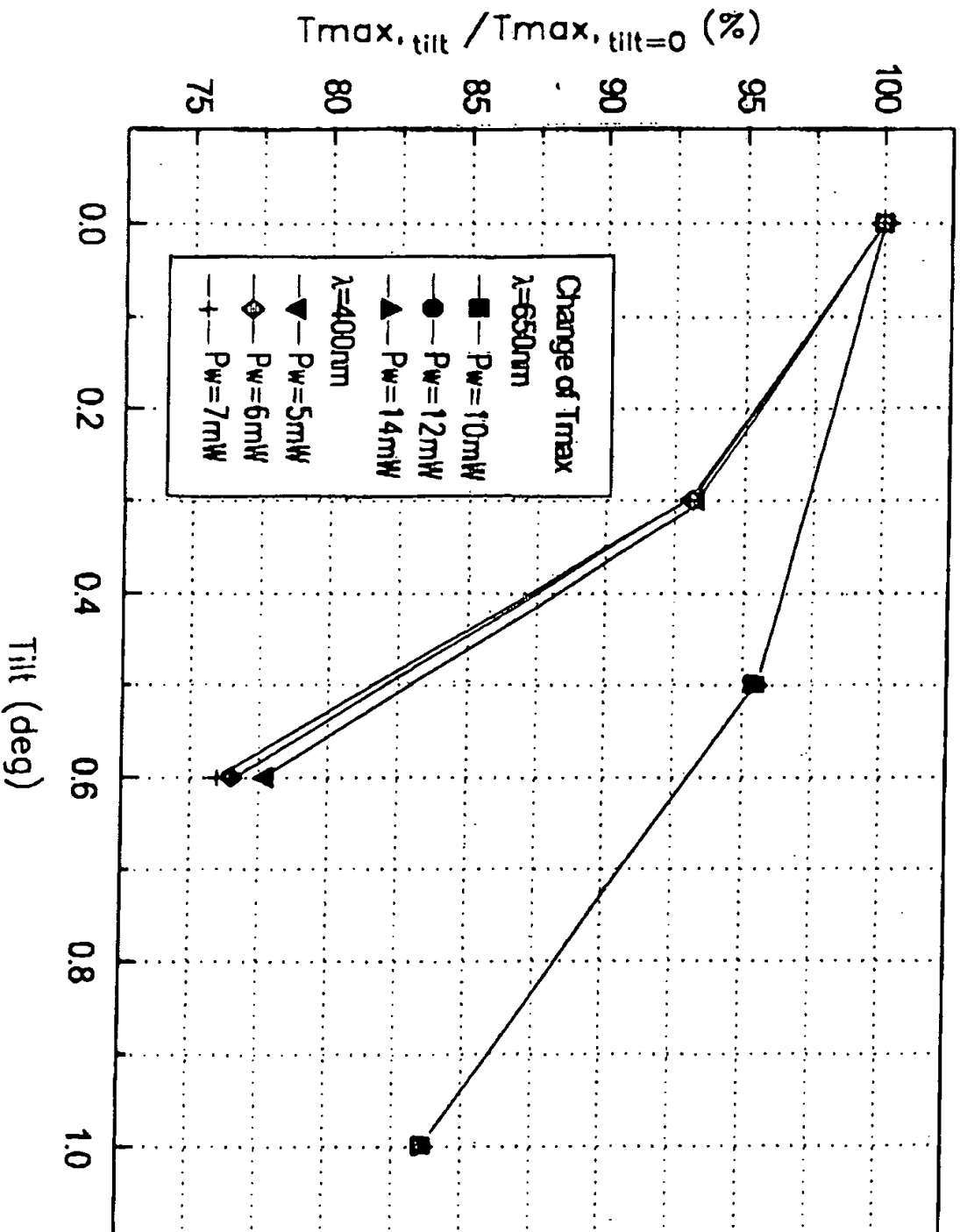
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FIG. 3 (PRIOR ART)



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FIG. 4 (PRIOR ART)



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FIG. 5 (PRIOR ART)

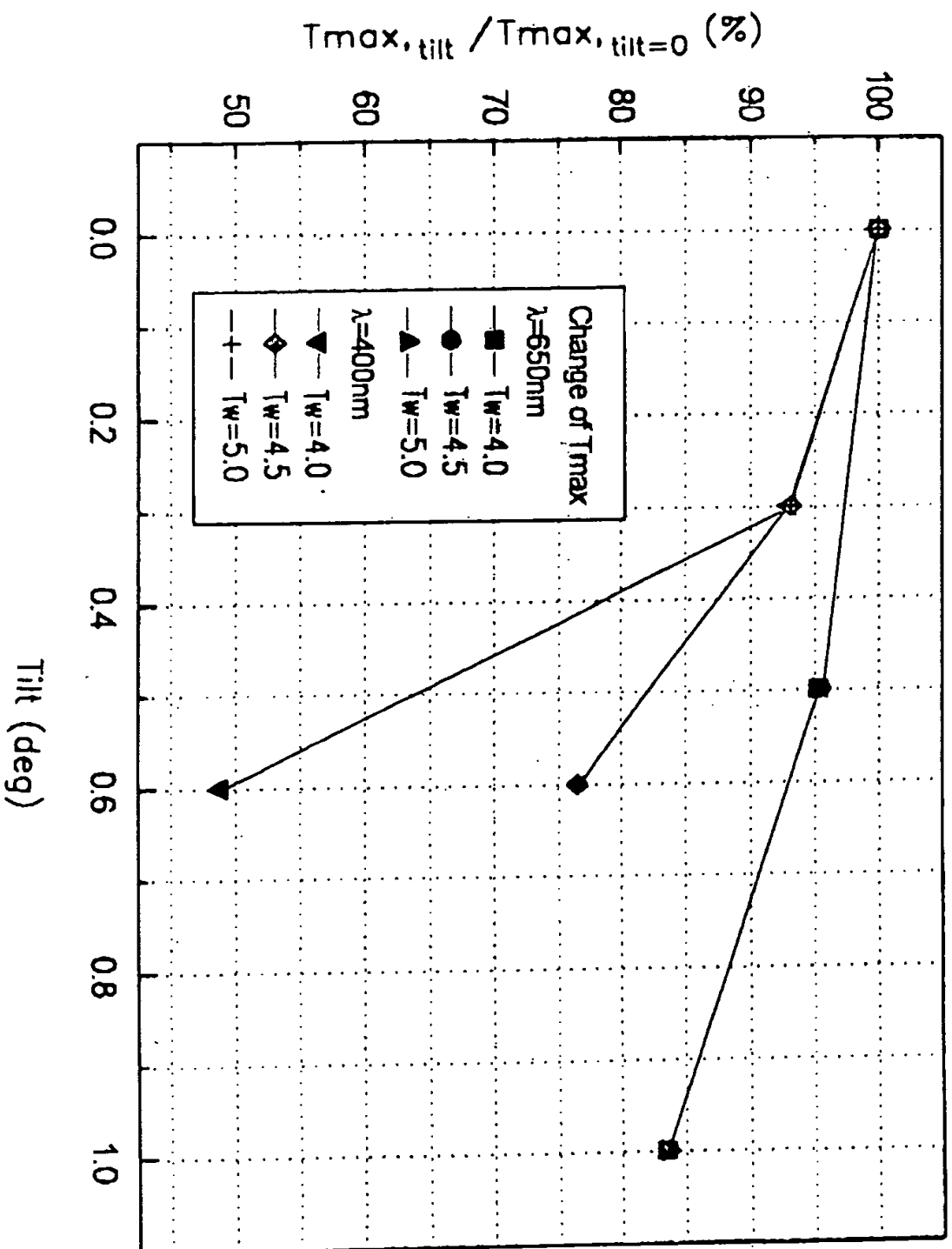
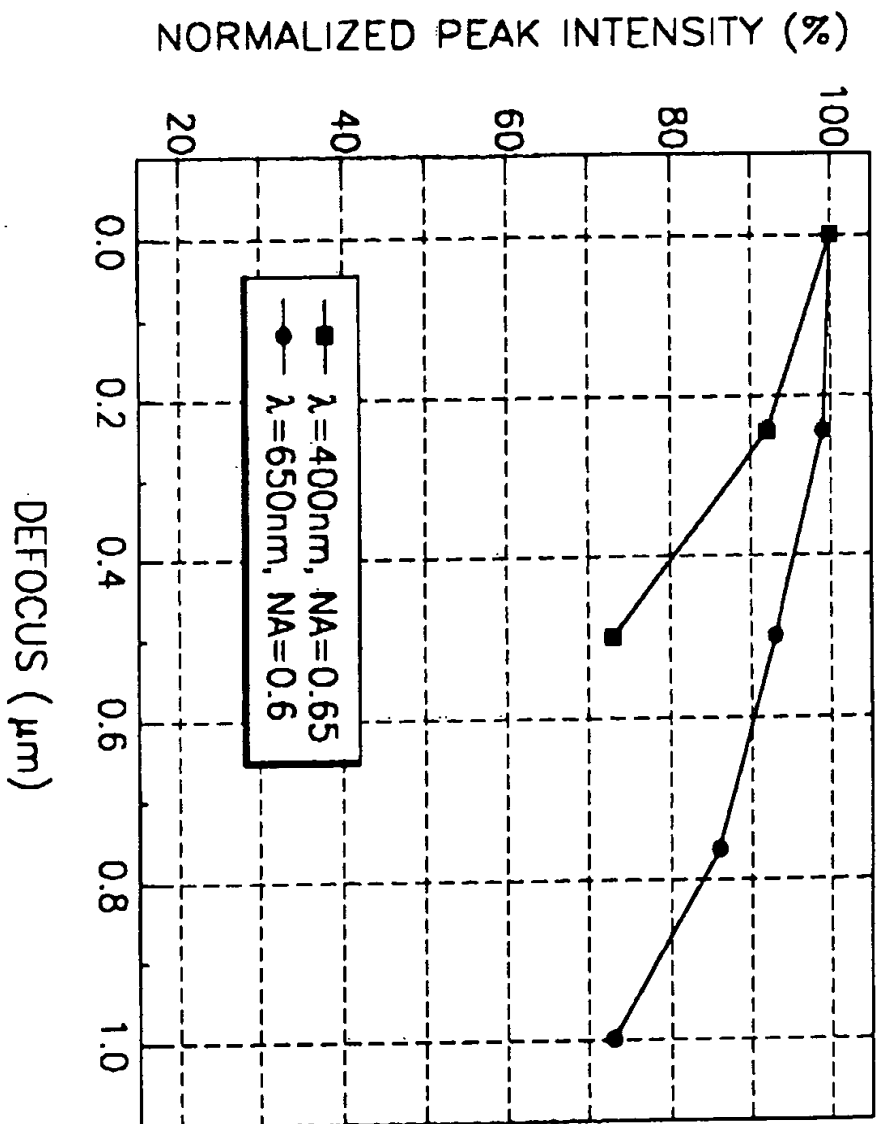
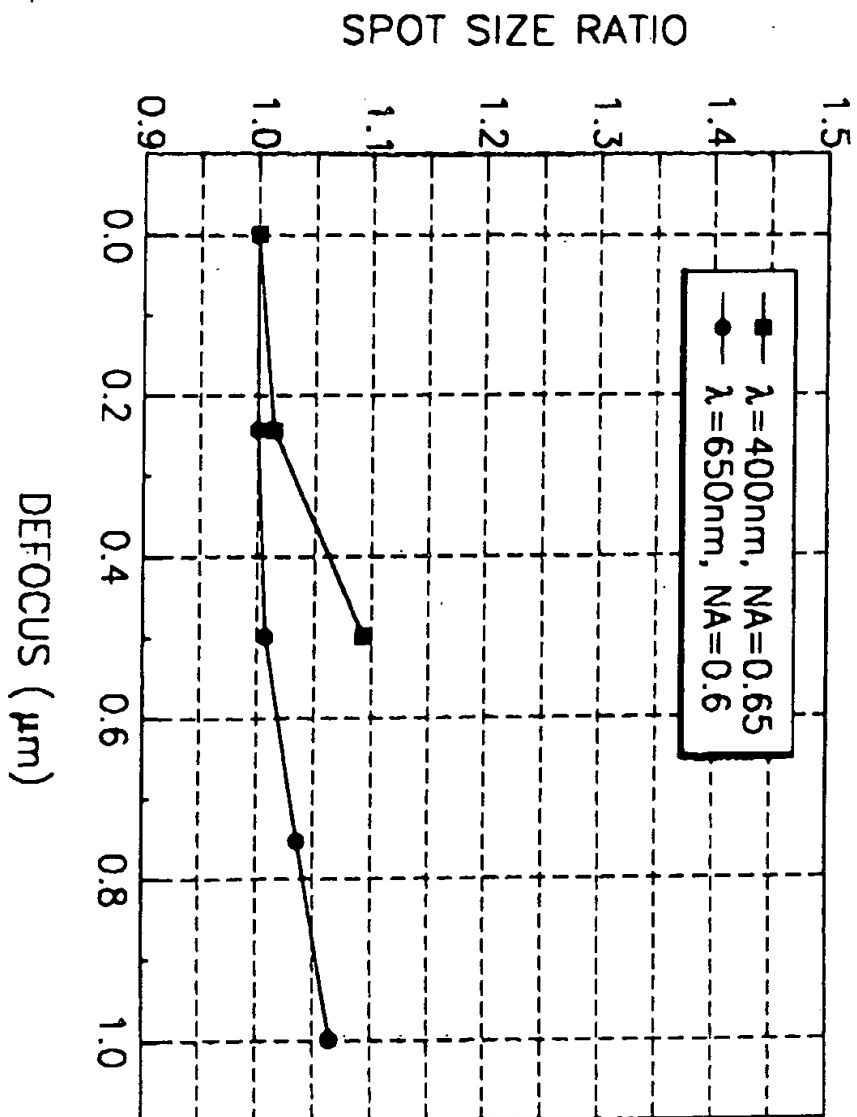


FIG. 6 (PRIOR ART)

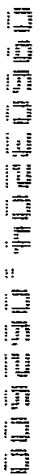


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FIG. 7 (PRIOR ART)



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$$\frac{P_{\text{PEAK, Tilt, DEFOCUS}}}{P_{\text{PEAK, Tilt, DEFOCUS}}} (\%)$$

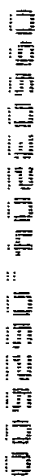
$$\frac{\text{SPOT SIZE}_{\text{Tilt, DEFOCUS}}}{\text{SPOT SIZE}_{\text{normal}}} (\%)$$


FIG. 10

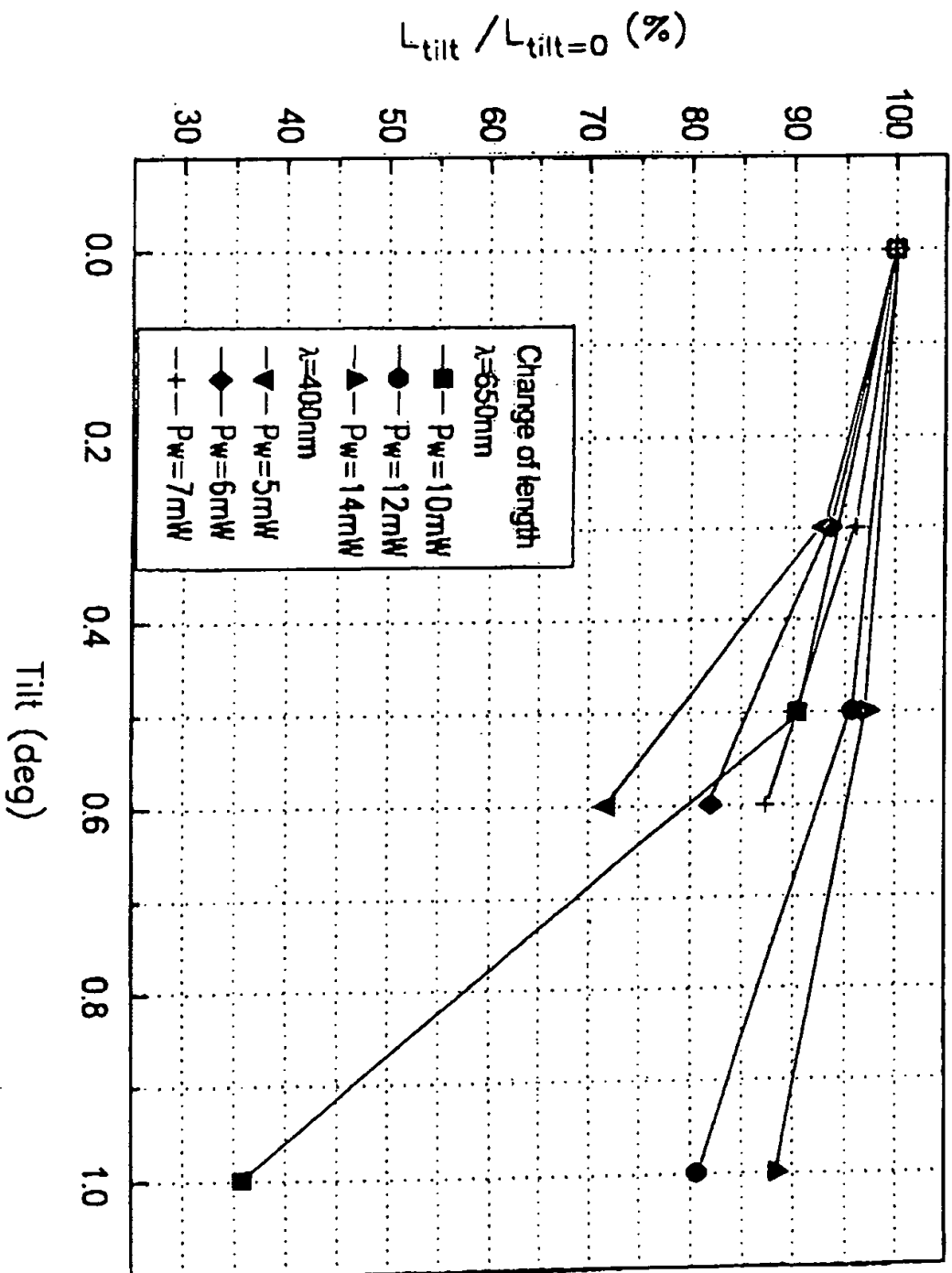


FIG. 11

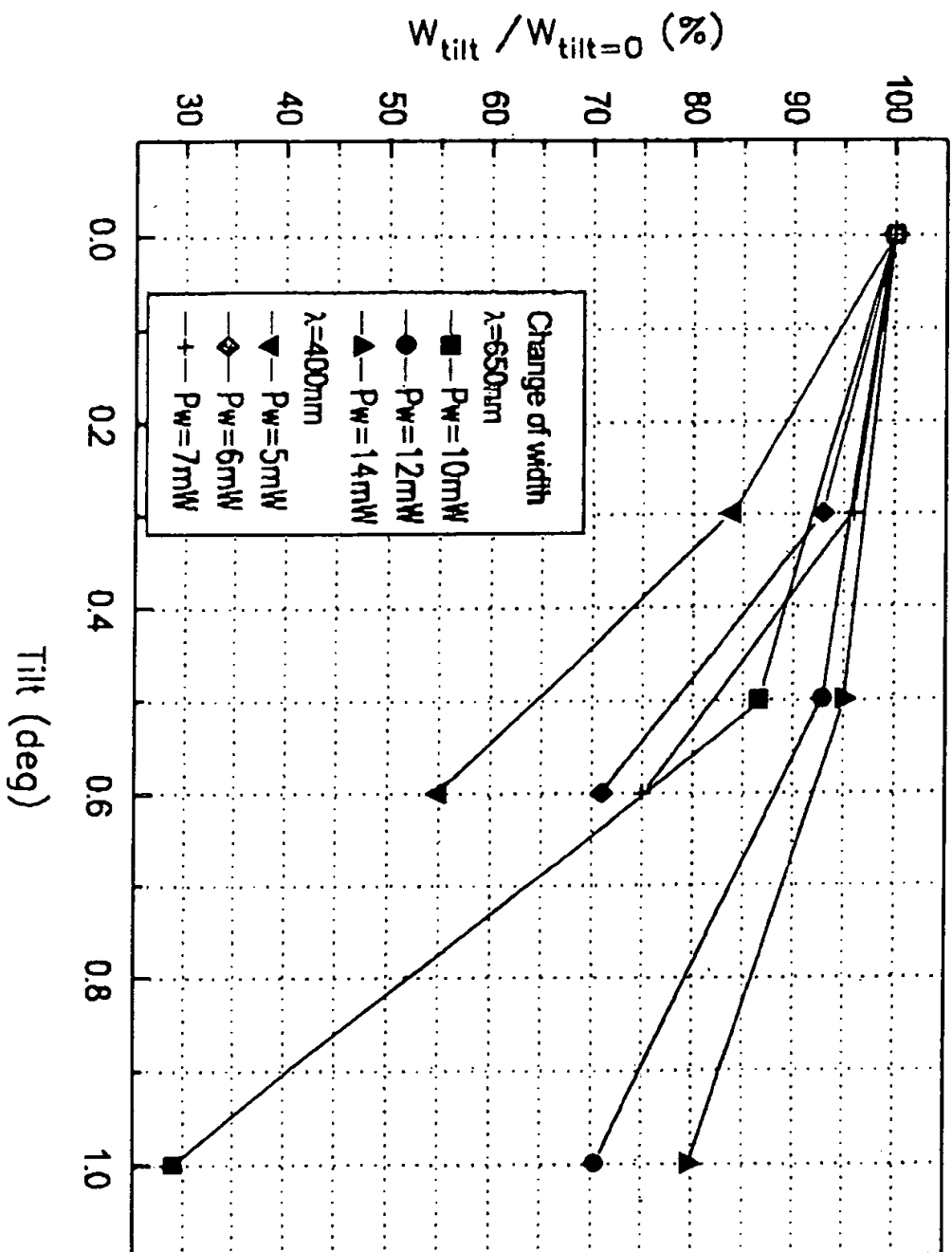


FIG. 12A

Pw (mW)	Tilt (deg)	Tmax (C)	L (nm)	W (nm)
10	0	754.6	755.5	345.2
	0.5	720.0	682.9	298.7
	1.0	630.7	248.6	96.3
12	0	901.9	926.6	484.1
	0.5	860.7	887.5	450.0
	1.0	753.9	747.3	340.5
14	0	1048.9	1026.5	577.9
	0.5	1000.7	997.7	548.7
	1.0	876.6	907.1	459.8

FIG. 12B

Pw (mW)	Tilt (deg)	Tmax (C)	L (nm)	W (nm)
5	0	834.0	518.1	277.9
	0.3	778.1	493.8	240.9
	0.6	648.7	381.0	156.6
6	0	987.1	575.8	325.6
	0.3	919.2	551.3	310.6
	0.6	755.3	479.9	238.1
7	0	1141.9	615.0	368.6
	0.3	1062.2	590.7	356.0
	0.6	867.9	537.3	282.2

FIG. 13

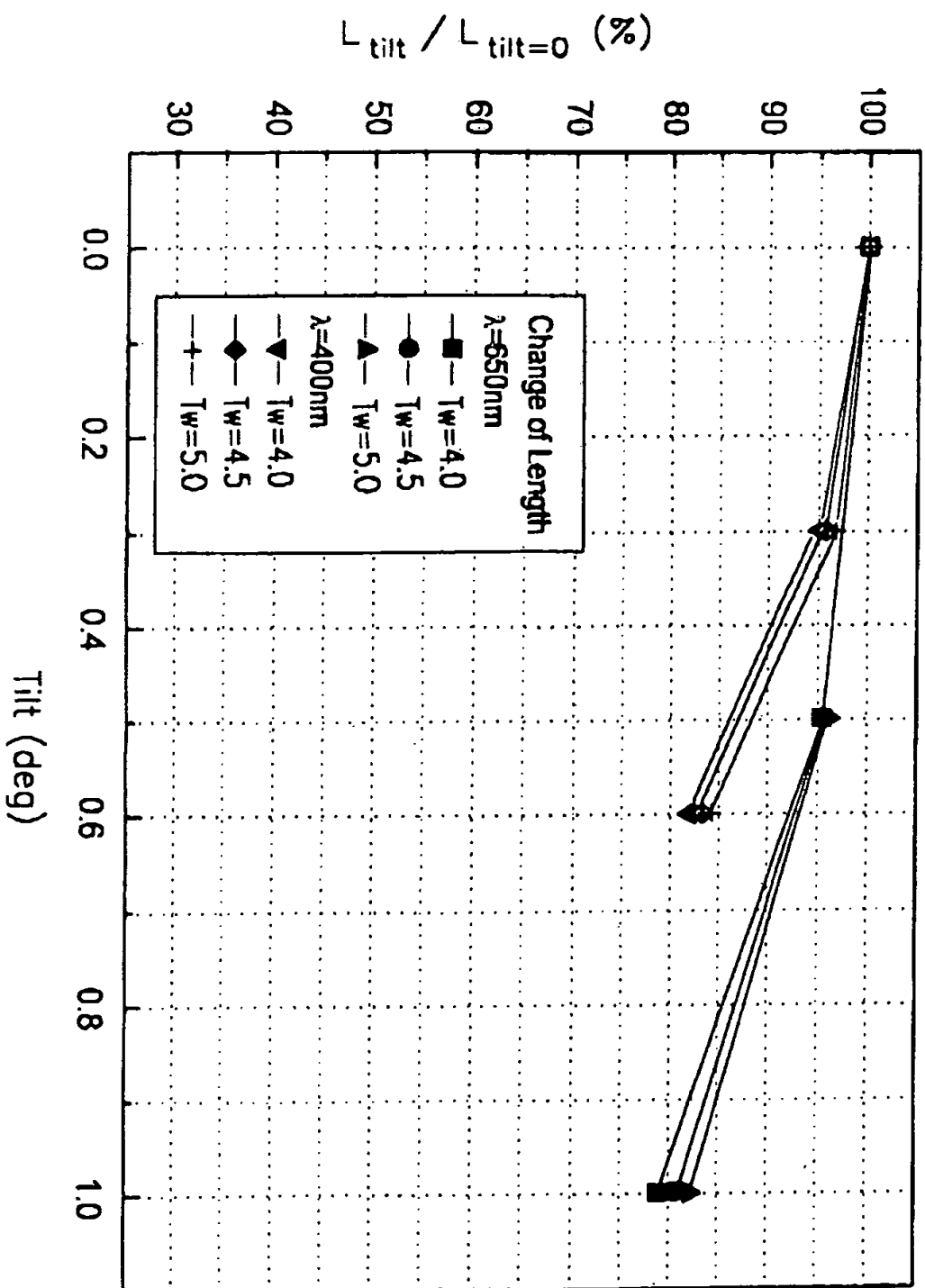


FIG. 14

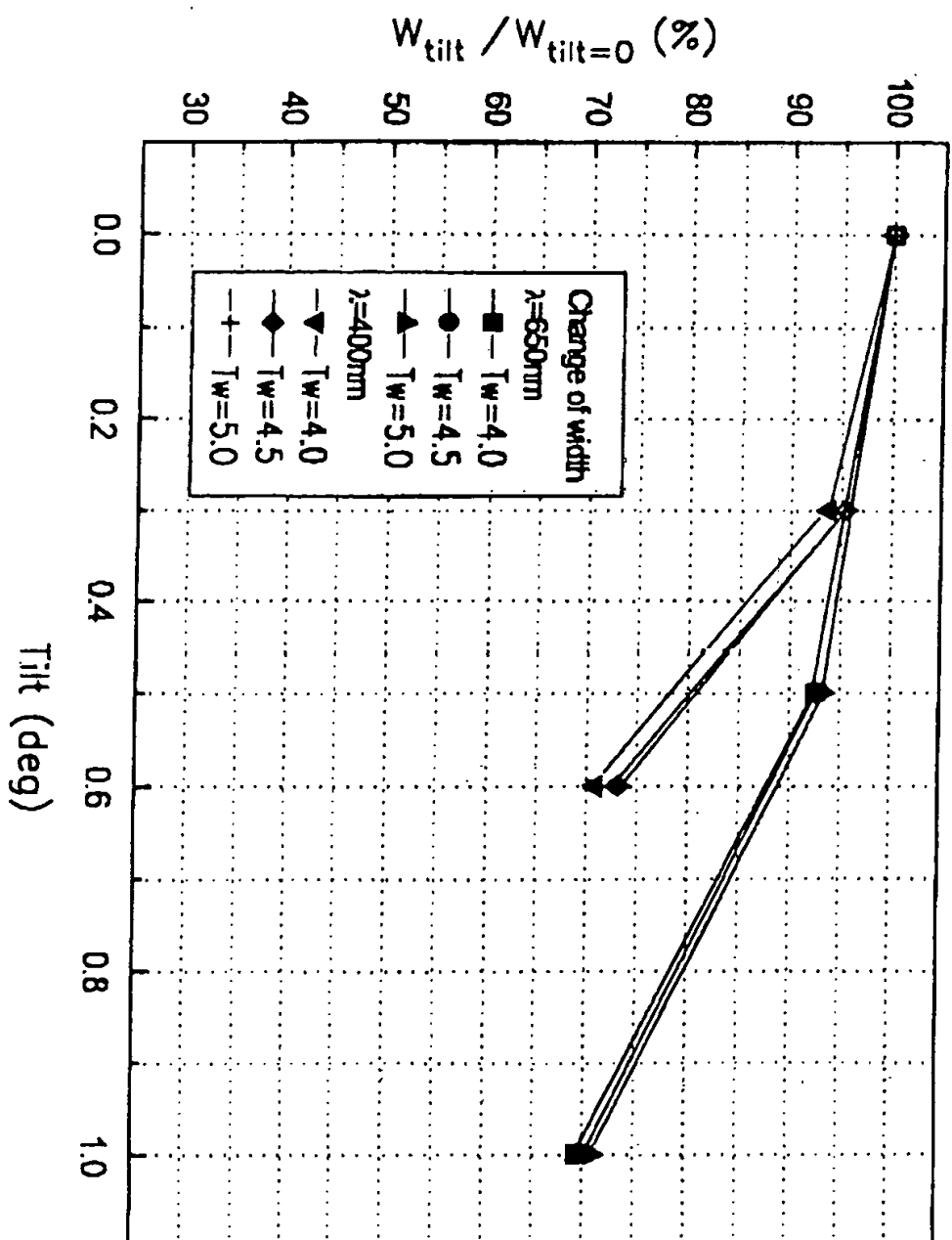


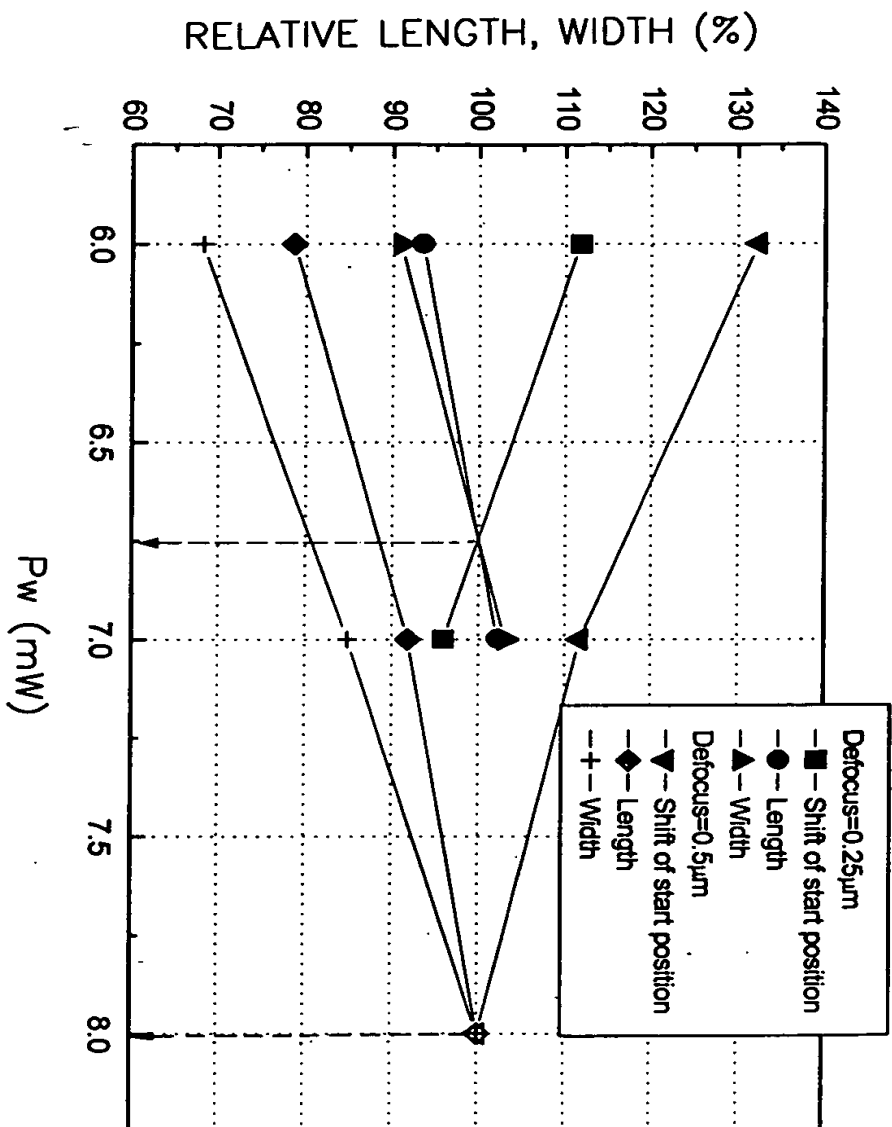
FIG. 15A

Pw (mW)	Tilt (deg)	Tmax (C)	L (nm)	W (nm)
4Tw	0	895.8	853.8	477.1
	0.5	853.8	814.5	441.6
	1.0	747.6	673.2	330.6
4.5Tw	0	901.9	926.6	484.1
	0.5	860.7	887.5	450.0
	1.0	753.9	747.3	340.5
5Tw	0	908.7	998.2	490.3
	0.5	866.2	959.1	456.8
	1.0	759.5	820.1	347.3

FIG. 15B

Pw (mW)	Tilt (deg)	Tmax (C)	L (nm)	W (nm)
4Tw	0	980.6	538.2	323.8
	0.5	912.0	512.0	303.4
	1.0	748.9	441.0	229.5
4.5Tw	0	987.1	575.8	325.6
	0.5	919.2	551.3	310.6
	1.0	755.3	479.9	238.1
5Tw	0	993.3	612.3	329.0
	0.5	925.2	592.7	315.2
	1.0	760.1	516.3	241.2

FIG. 16



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FIG. 17

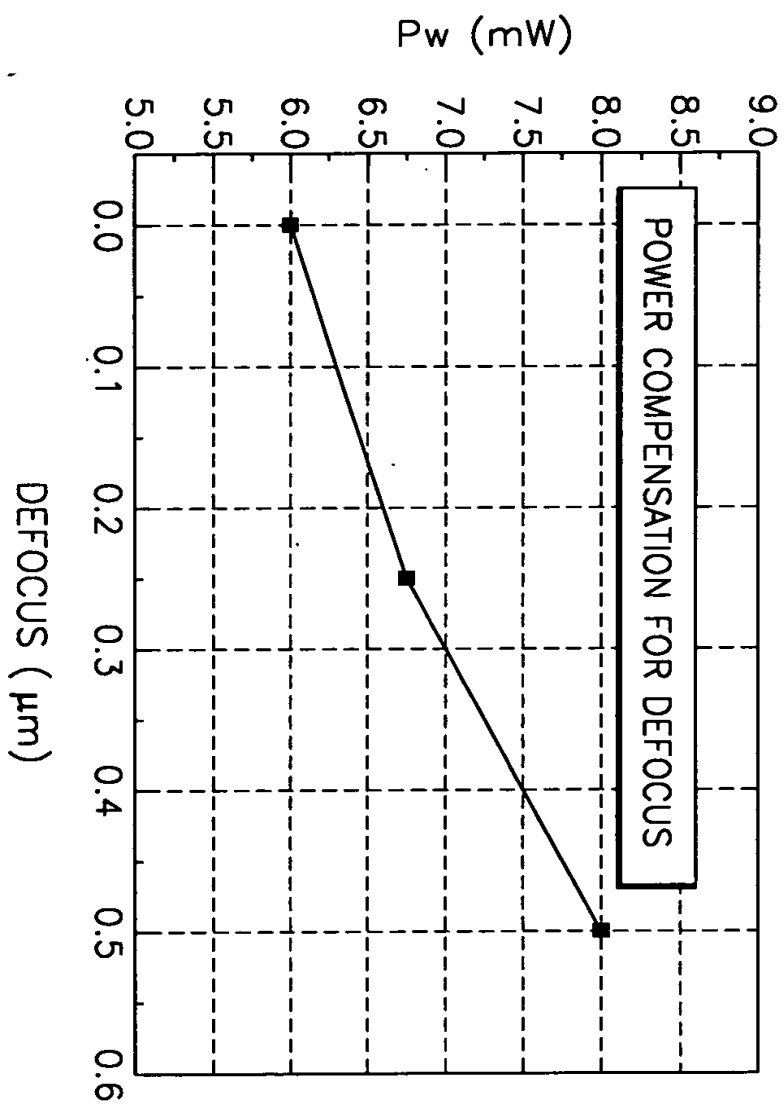


FIG. 18

Tilt P _w		0°	0.5°	0.5°+0.25μm DEFOCUS
6mW	SHIFT OF RECORDING POSITION	0	0.293	0.293
	LENGTH	0.515	0.439	0.439
	WIDTH	0.231	0.174	0.174
7mW	SHIFT OF RECORDING POSITION	—	0.262	0.262
	LENGTH		0.496	0.496
	WIDTH		0.214	0.214
8mW	SHIFT OF RECORDING POSITION		0.245	0.704
	LENGTH		0.535	0.090
	WIDTH		0.242	0.051
9mW	SHIFT OF RECORDING POSITION		—	0.700
	LENGTH			0.372
	WIDTH			0.107

FIG. 19

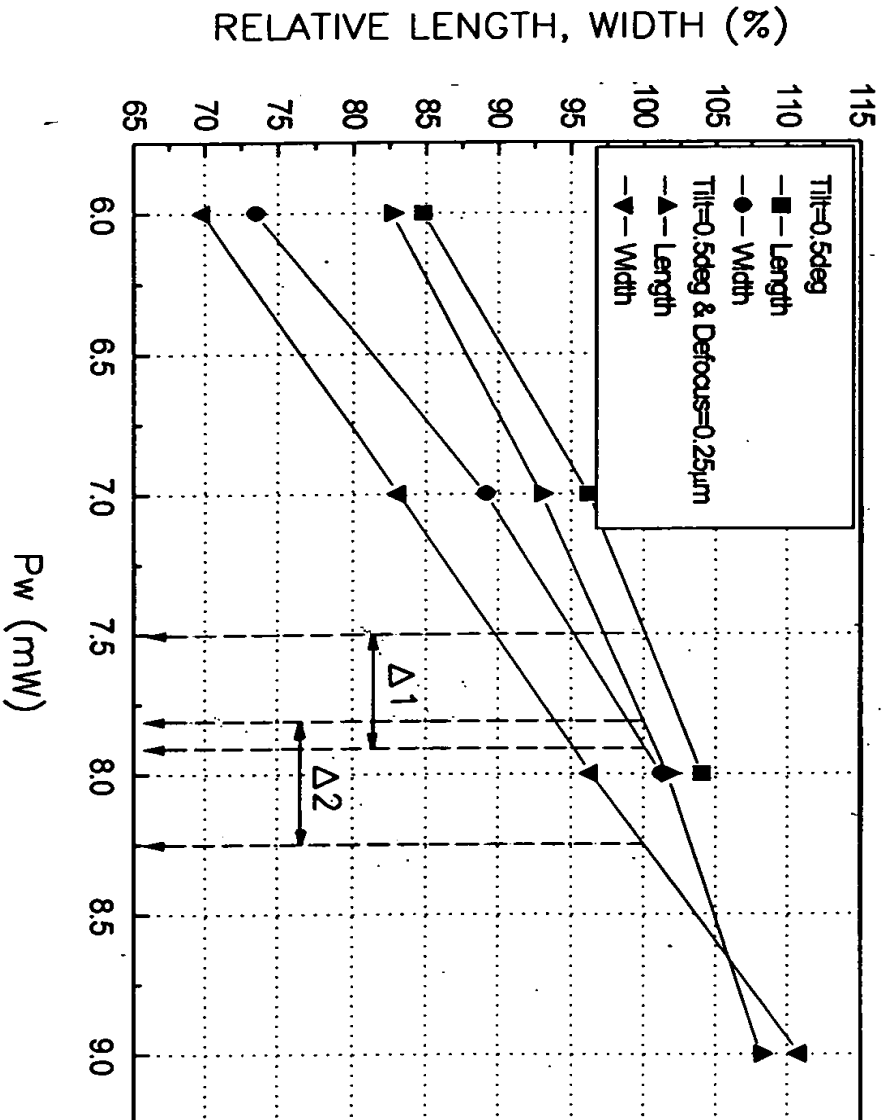


FIG. 20

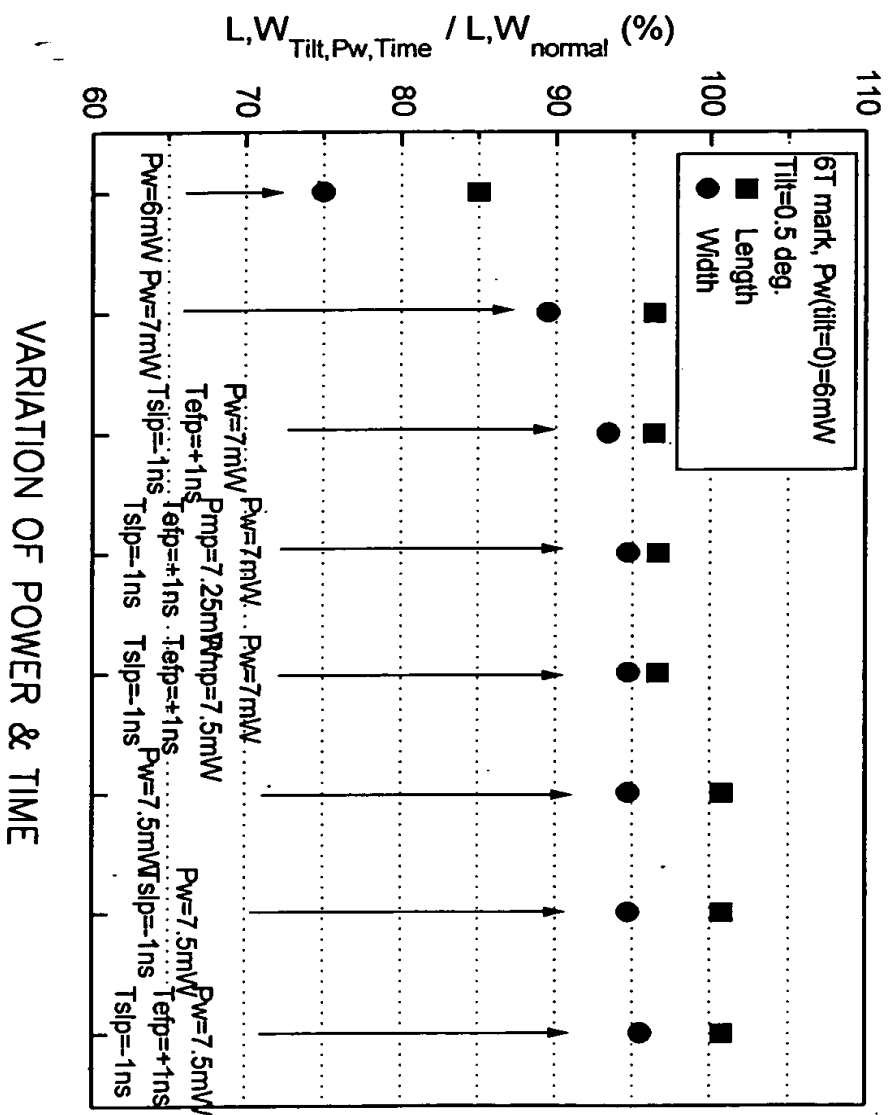


FIG. 21B

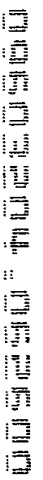


FIG. 22

P _w		Tilt		0°	0.5°	1.0°
		MEASURED ITEM				
6mw	SHIFT OF RECORDING POSITION		0	0.293	NO RECORD	
	LENGTH		0.515	0.439		
	WIDTH		0.231	0.174		
7mw	SHIFT OF RECORDING POSITION					
	LENGTH					0.262
	WIDTH					0.496
8mw	SHIFT OF RECORDING POSITION				0.214	
	LENGTH				0.245	
	WIDTH				0.535	
9mw	SHIFT OF RECORDING POSITION				0.090	
	LENGTH				0.242	
	WIDTH				0.051	
					0.700	
					0.372	
					0.107	

FIG. 23

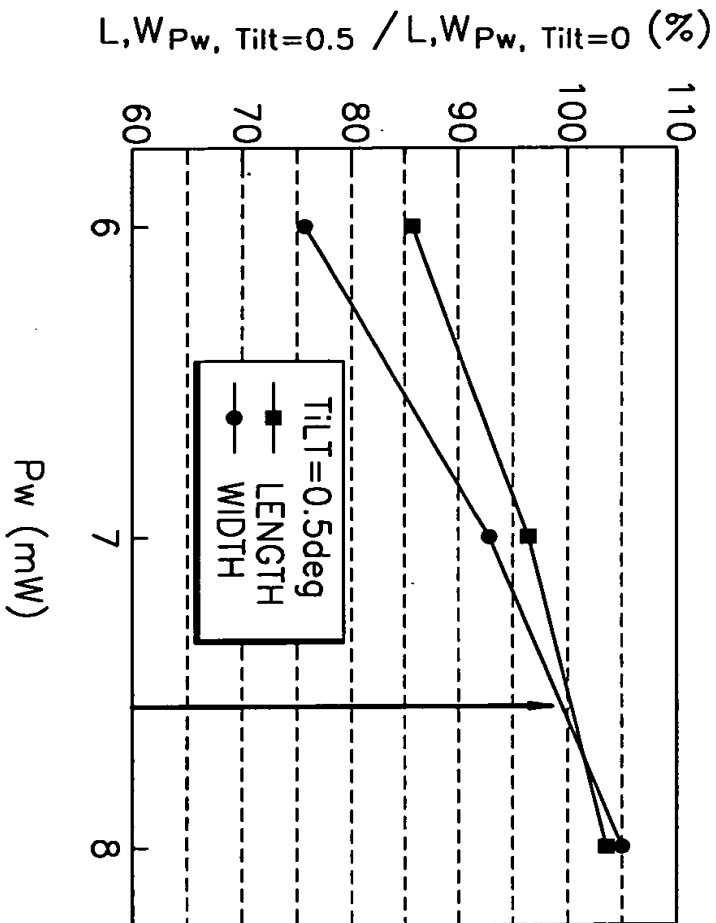


FIG. 24

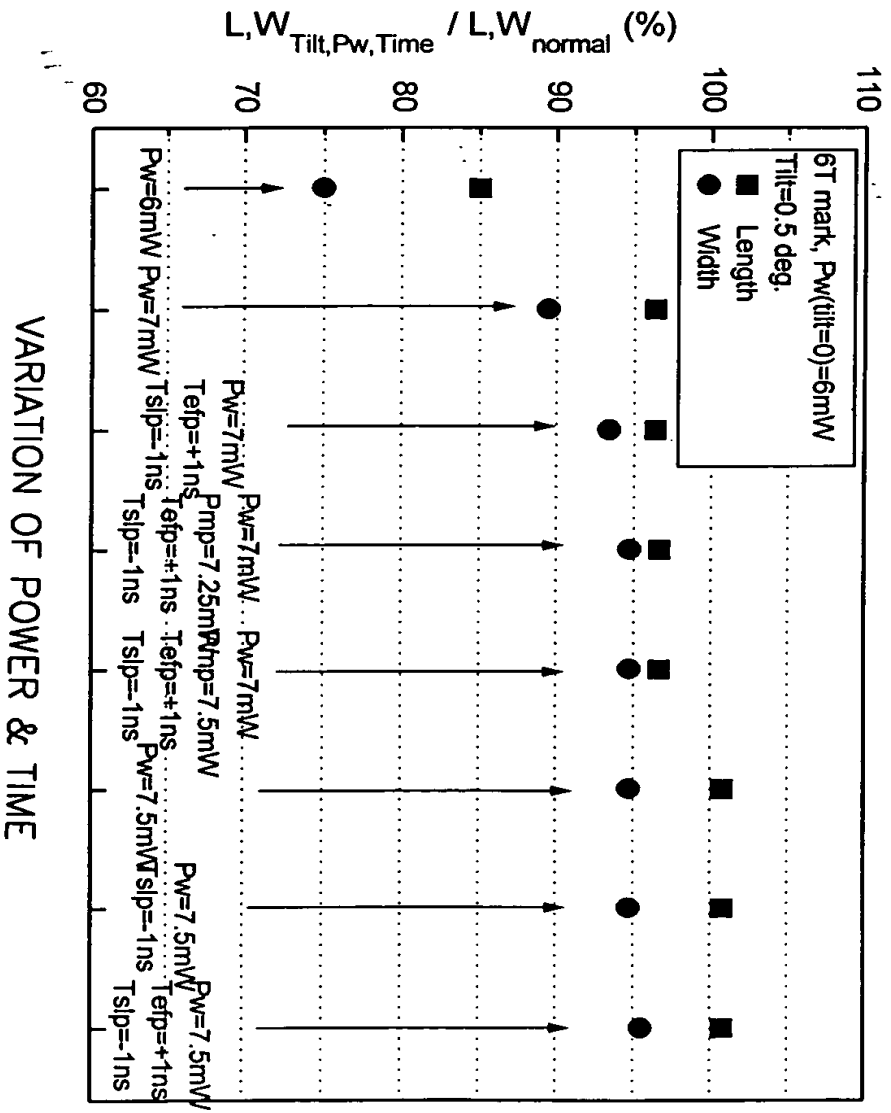


FIG. 25

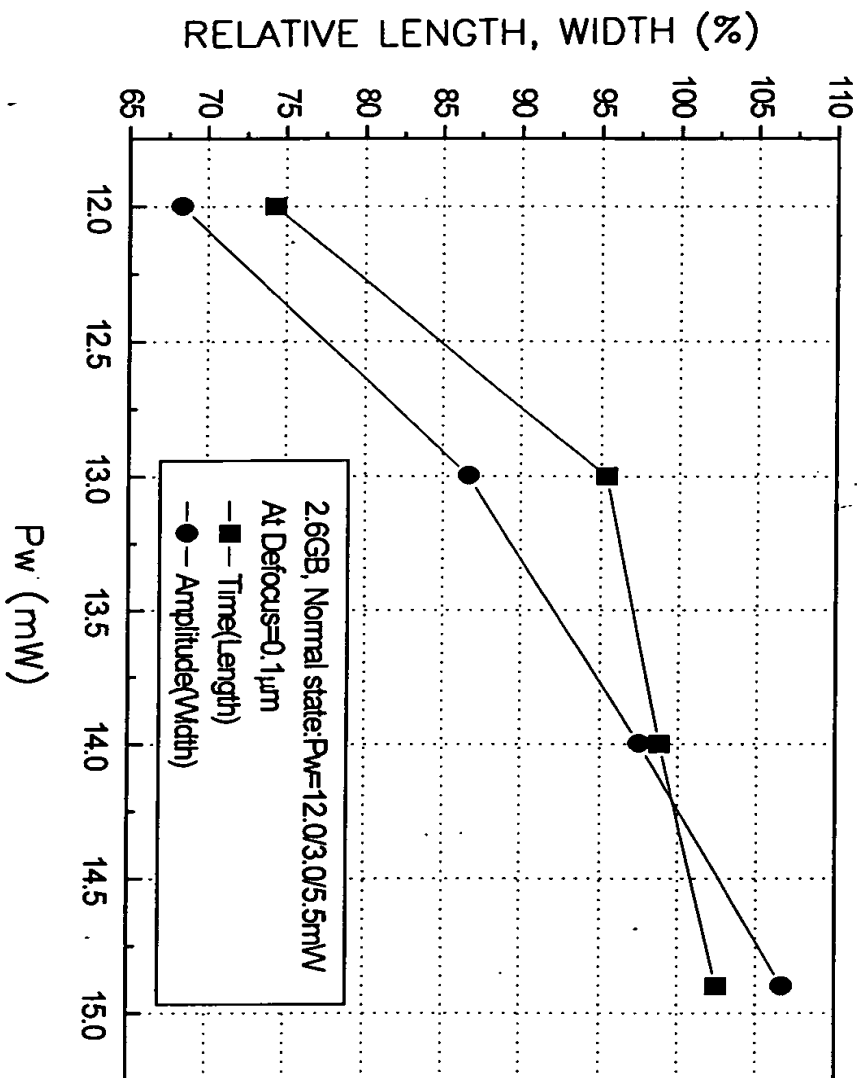


FIG. 26

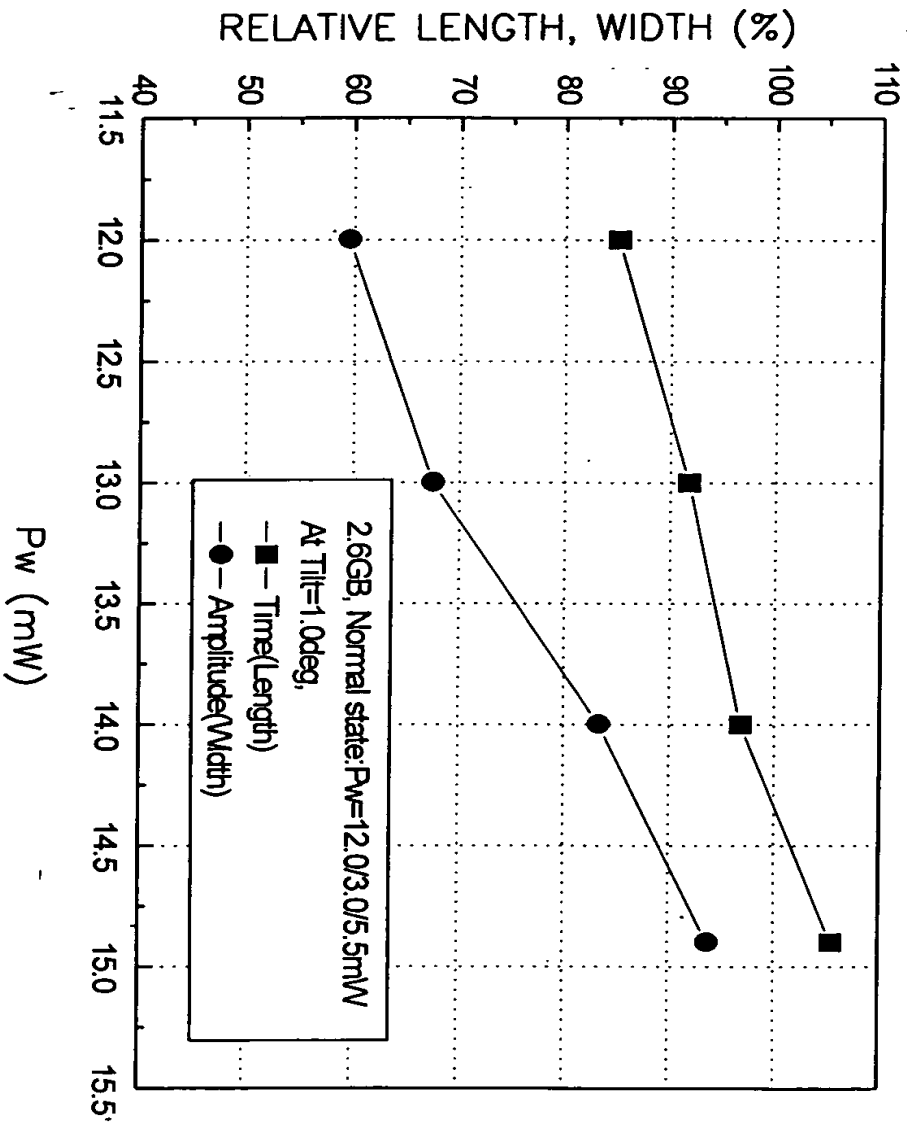


Figure 1. The 12 test items of the T-LESQ. The items are arranged in a vertical column, each with a number and a corresponding diagram of a person's body posture. The diagrams show various combinations of arm and leg positions, representing different levels of exertion and posture. The items are numbered 1 through 12, with 1 at the top and 12 at the bottom.

FIG. 27

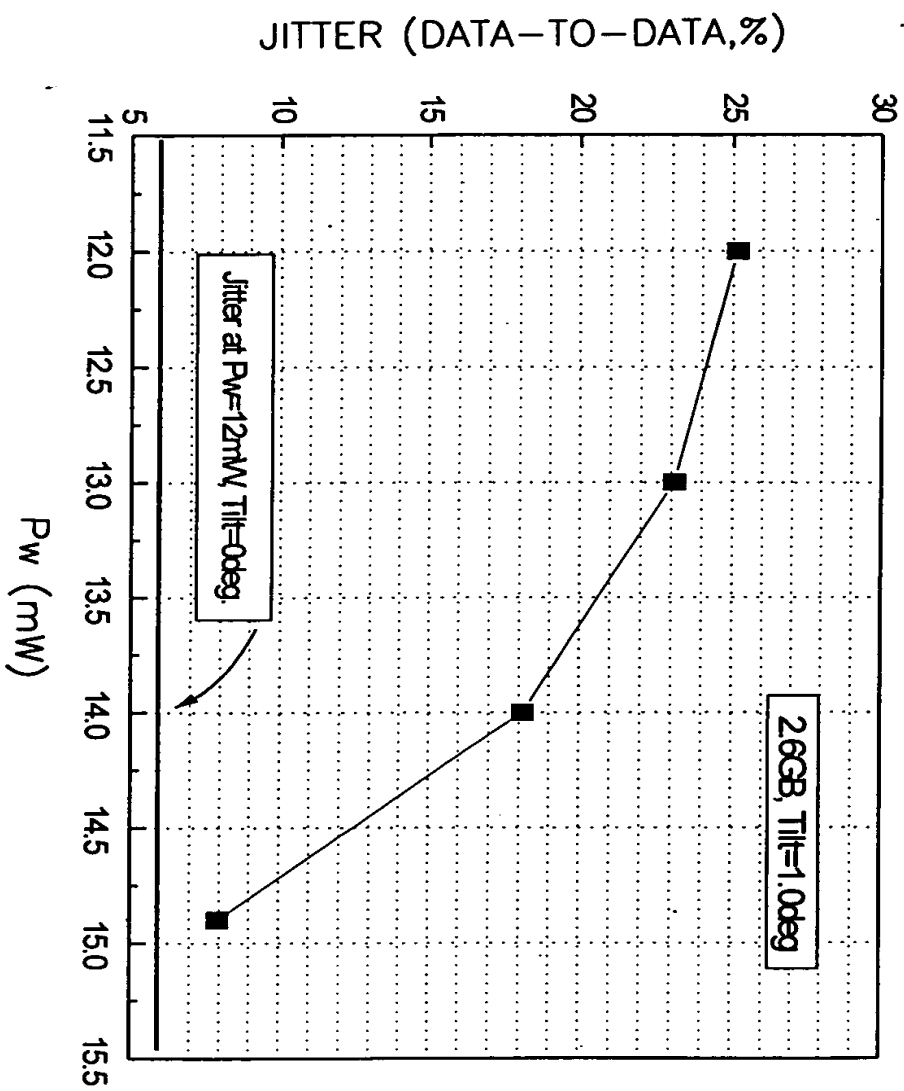


FIG. 29

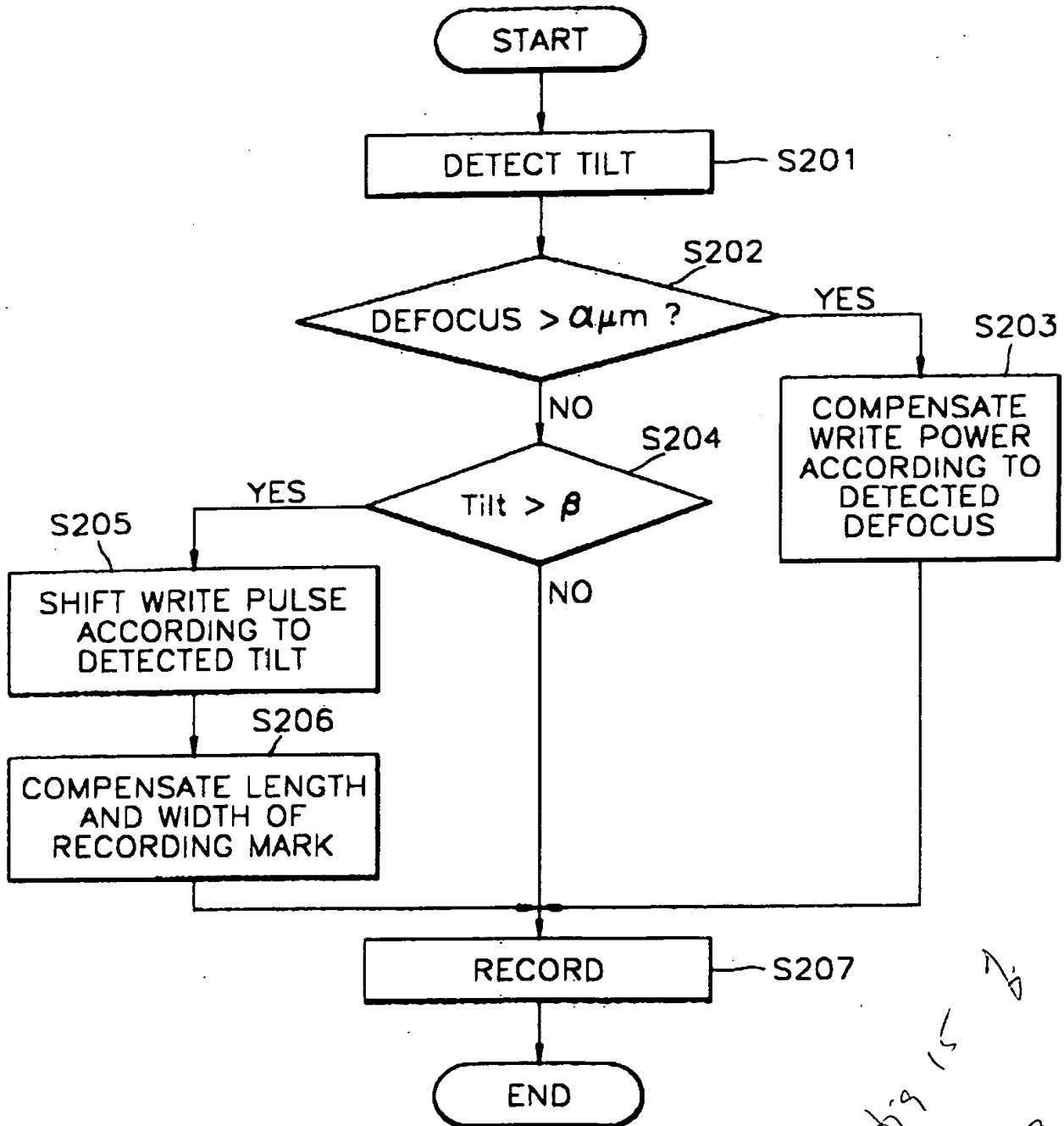


FIG. 30

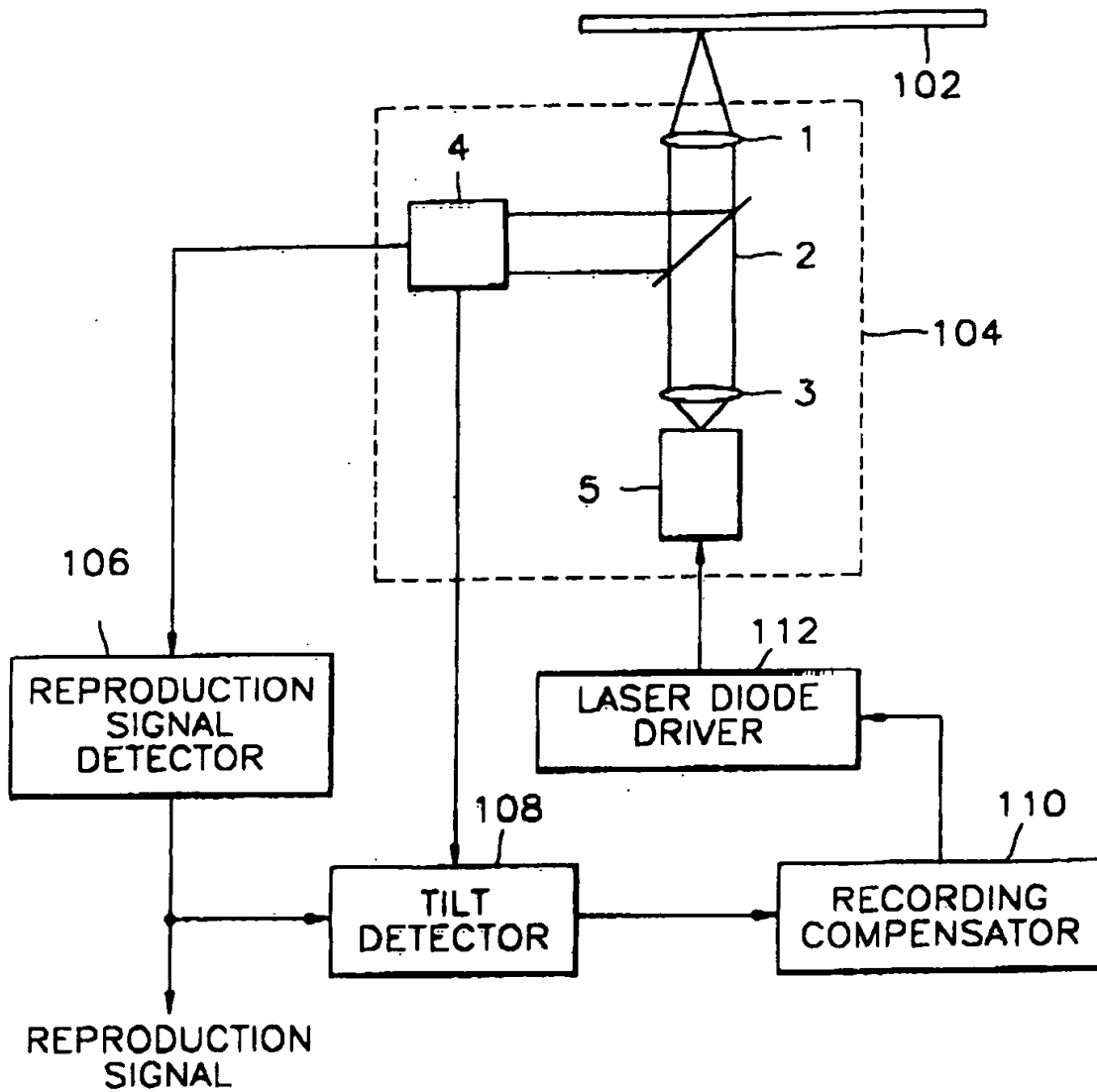


FIG. 31

